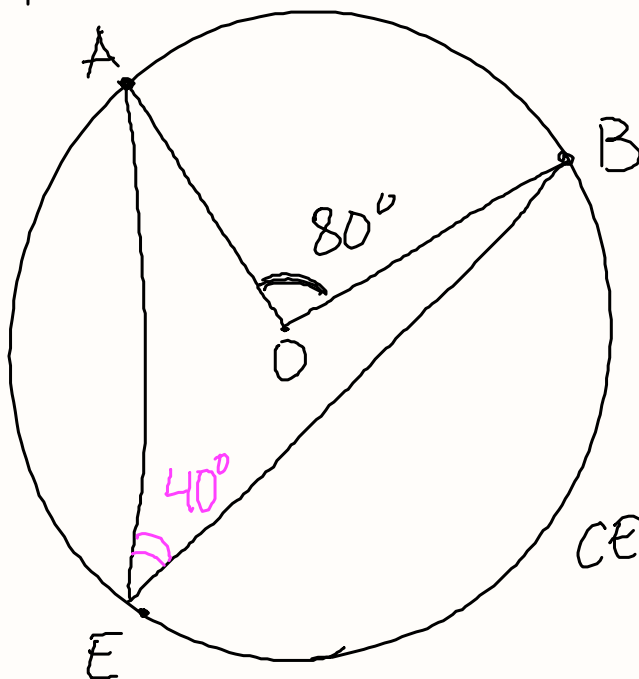


#7, 8 p. 199



ANGLE $\angle AOB$
CENTRAL ANGLE

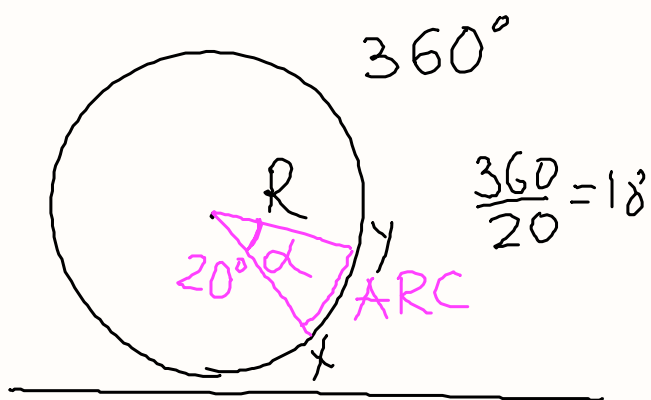
$\angle AEB$ - INSCRIBED
ANGLE

CENTRAL ANGLE =
= 2 INSCRIBED
ANGLES

#7 $C = 2\pi R = 2 \cdot 3.14 \cdot 8 \approx 50.24$

$360^\circ - 120^\circ = 240^\circ$ $50.24 \cdot \frac{240^\circ}{360^\circ} \approx 33 \text{ in}$

p. 199 #1-3



$$C = 2\pi R$$

CIRCUMFERENCE

$$C = \pi D$$

$$D = 2R; \quad R = \frac{D}{2}$$

$$\frac{360^\circ}{20^\circ} = \frac{2\pi R}{C_{xy}} \quad \begin{array}{l} \text{CIRCLE} \\ \text{ARC} \end{array}$$

$$C_{xy} = \frac{2\pi R \cdot 20^\circ}{360^\circ}$$

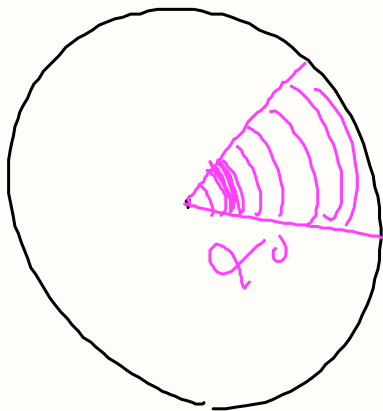
$$C_{xy} = \frac{2\pi R \cdot d^\circ}{360^\circ}$$

$$360^\circ \div 45^\circ = 8 \quad \frac{45^\circ}{360^\circ} = \frac{1}{8}$$

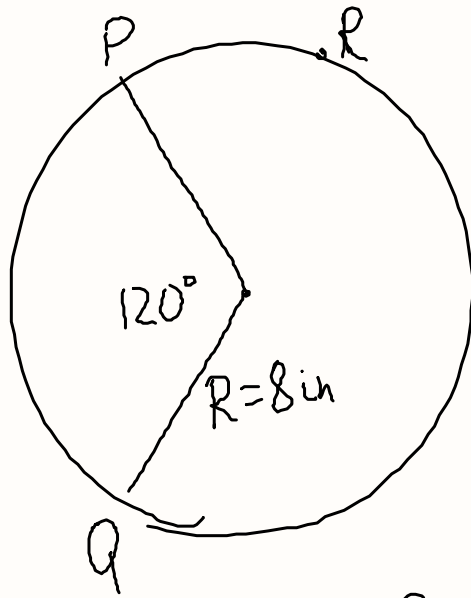
#199 #4-6

$$A_o = \pi R^2$$

$$A_{AB} = \pi \cdot R^2 \frac{\alpha^\circ}{360^\circ} = \frac{(3.14 \cdot R^2 \cdot \alpha^\circ)}{360^\circ}$$



7

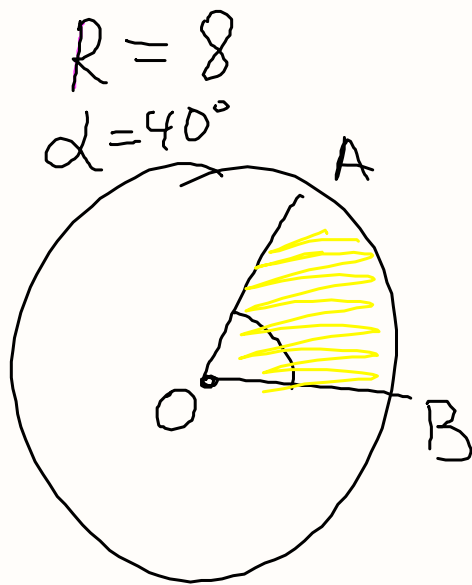


\widehat{PQ} - minor ARC ($< 180^\circ$) = 120°

$\widehat{PRQ} = 360^\circ - 120^\circ = 240^\circ$
major ARC ($> 180^\circ$)

$$C = 2\pi R = 2 \cdot 3.14 \cdot 8 = 50.24 \text{ in}$$

$$C_{PRQ} = 50.24 \cdot \frac{240^\circ}{360^\circ} = 50.24 \cdot \frac{2}{3} = 33.49 \text{ in}$$



$A_{AOB} = ?$

$$A = 3.14 \cdot R^2$$

$$A = 3.14 \cdot 8^2 =$$

$$3.14 \cdot 64 = 201$$

$$360^\circ / 40^\circ = 9$$

$$201 / 9 = 22.3$$

READ EX. A p. 198

9,10 p. 199